

## Abstract

In a construction machine comprising an electric motor 6 for driving a rotational system, an operating member for instructing an operation of the electric motor 6, and a controller 9 for controlling the electric motor 6 according to an operation command from the operating member, the controller 9 has an emulation model 9a for simulating dynamic characteristics of a hydraulic rotation driving device in real time, and a target value for control is calculated from the emulation model 9a according to the operation command from the operating member to control the electric motor 6. Accordingly, the electric motor can mildly respond to the operation of a lever in an intermediate range and swiftly respond to a quick operation of the lever.